

WHAT IS CLAIMED IS:

1. An information recording apparatus for recording data complying with a standard, comprising:

5 a detection unit configured to detect defective areas in an information recording area on an information storage medium, and to detect recordable continuous areas in the information recording area based on the detected defective areas;

10 a determination unit configured to determine a first recordable continuous area that has a size not less than a first data size of a first recording data unit; and

15 a recording unit configured to record position information which indicates that the first recording data unit is recorded on the first recordable continuous area in a first specific area of the information recording area, and to record the first recording data unit on the first recordable continuous area, on the basis of a determination result of the  
20 determination unit.

2. An apparatus according to claim 1, wherein the standard is a DVD-Video standard.

3. An apparatus according to claim 1, wherein the determination unit determines to record the first  
25 recording data unit of the first data size on the first recordable continuous area of at least the first data size, and determines to record a second recording data

unit of a second data size on a second recordable continuous area of at least the second data size, said second recording data unit following said first recording data unit.

5           4. An apparatus according to claim 3, wherein the recording unit records the video management information which contains playback control information used to instruct playback of the second recording data unit after the first recording data unit, said video  
10 management information recorded on a second specific area of the information recording area, said recording unit recording the first recording data unit on the first recordable continuous area, and the second recording data unit on the second recordable continuous  
15 area.

          5. An information recording method for recording data complying with a standard, comprising:  
          detecting defective areas in an information recording area on an information storage medium,  
20           detecting recordable continuous areas in the information recording area based detected defective areas;

          determining a first recordable continuous area that has a size not less than a first data size of  
25 first recording data unit;

          recording the first recording data unit on the first recordable continuous area based on the

determination; and

recording position information that indicates that the first recording data unit is recorded on the first recordable continuous area in a first specific area of the information recording area.

6. A method according to claim 5, wherein the standard is a DVD-Video standard.

7. A method according to claim 5, further comprising:

determining to record the first recording data unit of the first data size on the first recordable continuous area of at least the first data size, and determines to record a second recording data unit of a second data size on a second recordable continuous area of at least the second data size.

8. A method according to claim 7, further comprising: recording video management information which contains playback control information used to instruct playback of the second recording data unit after the first recording data unit, said video management information stored on a second specific area of the information recording area,

recording the first recording data unit on the first recordable continuous area, and

recording the second recording data unit on the second recordable continuous area.

9. An information recording method for recording

data complying with a standard, comprising:

detecting defective areas in an information  
recording area on an information storage medium;

5 detecting recordable continuous areas in the  
information recording area based on the detected  
defective areas;

determining a first recordable continuous area  
that has a size not less than a first data size of a  
first recording data unit; and

10 recording the first recording data unit on the  
first recordable continuous area based on the  
determination.

10. A method according to claim 9, wherein the  
standard is a DVD-Video standard.

15 11. A method according to claim 9, further  
comprising:

determining to record the first recording data  
unit on the first recordable continuous area of at  
least the first data size; and

20 determining to record a second recording data  
unit, which follows the first recording data unit, the  
second recording data unit having a second data size,  
and determining to store the second recording data unit  
on a second recordable continuous area of at least the  
25 second data size.

12. A method according to claim 11, further  
comprising:

recording video management information, which contains playback control information used to instruct playback of the second recording data unit after the recording of the first recording data unit, said video management information recorded on a specific area of the information recording area;

recording the first recording data unit on the first recordable continuous area; and

recording the second recording data unit, which follows the recording data unit, on the second recordable continuous area.

13. An information recording apparatus for recording data complying with a standard, comprising:

a detection unit configured to detect defective areas in an information recording area on an information storage medium, and to detect recordable continuous areas in the information recording area based on the detected defective areas;

a determination unit configured to determine a first recordable continuous area that has a size not less than a first data size of a first recording data unit; and

a recording unit configured to record the first recording data unit on the first recordable continuous area, on the basis of a determination result of the determination unit.

14. An apparatus according to claim 13, wherein:

said determination unit determines a second recordable continuous area that has a size not less than a second data size of a second recording data unit; and

5           the recording unit records the second recording data unit on the second recordable continuous area, on the basis of another determination result of the determination unit; and wherein said second recording data unit is recorded after said first recording data  
10           unit and is separated from the first recording unit by at least one defective area of said information recording area on said information storage medium.

15           15. An apparatus as recited in claim 14, wherein said recording unit further records location information specifying the location of said first and second recording data units on said information storage medium.

20           16. An apparatus as recited in claim 15, wherein said recording unit further records video management information used to control playback of said first and second recording data units.

17. An apparatus as recited in claim 16, wherein said standard is a DVD-Video standard.